



Task Force to Review and Identification of Standards for CO₂ Storage Capacity Estimation

Status Report at the
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Team Members

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Background

- Task Force **established** at the CSLF Melbourne meeting in September 2004
- **Phase I** completed at the CSLF Berlin meeting in September 2005
- **Phase II** completed at the CSLF Paris meeting in March 2007
- **Phase III** initiated at the CSLF Paris meeting in March 2007
 - Update on progress and status

Phase III - Tasks



- Harmonisation of methodologies that exist Internationally
 - Eg USA DOE regional partnerships program (unpublished)
- Compilation of case studies for storage
 - Build up reference set to help establish storage capacity co-efficients
- Support CSLF Capacity Building Task Force on knowledge transfer
 - Providing technical expertise at International venues

Phase III - Activities



1. [Coordination of methodology for CO₂ storage capacity estimation](#) with other national and international groups working on this subject, including the Geologic Working Group of the USA DOE Regional Carbon Sequestration Partnerships Program.

Status

- The USA DOE Regional Carbon Sequestration Partnerships Program has established in June 2007 a [Capacity and Fairways Subgroup](#) of the Geologic Working Group, tasked with develop methodology for the uniform and consistent assessment of CO₂ storage capacity in the United States, towards the production of a National Atlas of CO₂ Storage Capacity
- Stefan Bachu has been [invited to be a member, representing CSLF](#)
- A [draft report](#) by the Subgroup has just been completed in December 2007 which Stefan Bachu has access to
- A draft [comparative analysis](#) with CSLF methodology has been written and findings will be presented at the next CSLF meeting
 - [Many similarities – no major contentious issues](#)

Phase III - Activities



2. **Compilation of representative case-studies** of CO₂ storage capacity estimation at various scales and in different geological settings, including compilation of data on various coefficients that are used in CO₂ storage capacity estimations

Status

- Insufficient case studies to date, work in progress
 - Watching brief
 - GHGT9 (Nov 2008) obvious opportunity to build this dataset
 - John Bradshaw & Stefan Bachu chairing GHGT9 “focussed session” on Storage Capacity Estimation
- If member countries wish to submit any existing relevant site specific case studies, the Taskforce will include them into their analysis
- USA DOE Regional Partnerships have established a process to apply a co-efficient using regional estimates and Monte Carlo simulations of various reservoir parameters relevant to the USA sedimentary basins
 - started this process

Phase III - Activities



- 3 Provision of support to the [Task Force on Capacity Building](#) in training and applying the methodologies for estimating CO₂ storage capacity along the full chain from country-scale to site-scale, and from theoretical to matched capacity, to one or more developing economies in CSLF.

Status

- Members of the Task Force have presented lectures at the CSLF Capacity Building workshops in [Pittsburgh](#), USA (May 2007) and [Porto Alegre](#), Brazil (October 2007)
- Task Force members have contributed to the development of a 2-year plan (at meeting in Calgary Nov 2007) for the next workshops in 2008 and 2009
 - [ambitious](#)

Phase III - Activities



4. Other achievements: Dissemination of results

- A paper derived from the [Phase II report](#) was published in the International Journal of Greenhouse Gas Control, thus achieving broader [methodology dissemination](#)
- The methodologies developed by the Task Force are being applied within the EU, in France, Brazil, and the Indian sub-continent
- Most of the Taskforce members contributed to IEA/CSLF G8 Recommendations at meeting in Calgary (Nov 2007) of future technical requirements needed to help establish CCS



- Comments, suggestions, feedback?